

AMENDMENTS TO THE CLAIMS

14-23. (Cancelled)

24. (Currently Amended) A method of treating a tumor which comprises administering to a subject in need thereof an effective amount ~~the extract of claim 14~~ of an extract of *Lentinus edodes* mycelium to enhance $\gamma\delta$ T cell activity, which is prepared by

crushing and delignifying a solid medium containing *Lentinus edodes* mycelia in the presence of water and one or more enzymes selected from cellulase, protease and glucosidase to prepare a suspension, wherein said solid medium is based on bagasse and defatted rice bran; and raising temperature of said suspension to inactivate the enzymes.

25. (Currently Amended) A The method of treating a tumor of claim 24, which comprises administering to a subject in need thereof an effective amount of the extract from *Letinus edodes*, wherein said extract comprises carbohydrates, proteins, polyphenols, crude fat, crude ash and soluble nitrogen-free materials other than carbohydrates, ~~of claim 15~~ to enhance $\gamma\delta$ T cell activity.

26. (Currently Amended) A method of treating a bacterial or viral infection, which comprises administering to a subject in need thereof an effective amount ~~the extract of claim 14~~ of an extract of *Lentinus edodes* mycelium to enhance $\gamma\delta$ T cell activity, which is prepared by

crushing and delignifying a solid medium containing *Lentinus edodes* mycelia in the presence of water and one or more enzymes selected from cellulase, protease and glucosidase to prepare a suspension, wherein said solid medium is based on bagasse and defatted rice bran; and raising temperature of said suspension to inactivate the enzymes, provided that the viral infection is not HIV infection.

27. (Currently Amended) A The method of treating a bacterial or viral infection of claim 26, which comprises administering to a subject in need thereof an effective amount of the extract from *Letinus edodes*, wherein said extract comprises carbohydrates, proteins, polyphenols, crude fat, crude ash and soluble nitrogen-free materials other than carbohydrates, ~~of claim 15~~ to enhance $\gamma\delta$ T cell activity, provided that the viral infection is not HIV infection.

28. (Currently Amended) The method of claim 26 or 27, wherein said ~~disease~~ infection is an infection by *Mycobacterium*, spp.

29. (Currently Amended) The method of claim 26 or 27, wherein said ~~disease~~ infection is an infection by *Listeria monocytogenes*.

30. (Currently Amended) The method of claim 26 or 27, wherein said ~~disease~~ infection is an infection by Hepatitis A.

31. (Currently Amended) The method of claim 26 or 27, wherein said ~~disease~~ infection is an infection by Hepatitis B.

32. (Currently Amended) The method of claim 26 or 27, wherein said ~~disease~~ infection is an infection by Hepatitis C.

33. Cancelled.

34. (Currently Amended) The method of claim 26 or 27, wherein said ~~disease~~ infection is an infection by vaccinia virus.

35. (New) The method for treating a tumor of claim 24, which comprises administering to a subject in need thereof an effective amount of the extract comprising approximately 25.3% carbohydrates, 19.7% proteins, 2.6% polyphenols, 8% crude fat, 22% crude ash and 20% soluble nitrogen-free materials other than carbohydrates.

36. (New) The method of claim 24, wherein said extract is suitable for oral administration.

37. (New) The method of claim 24, wherein said extract is suitable for injection or percutaneous absorption.

38. (New) A method for activating $\gamma\delta$ T *in vivo* by administering to an animal an extract of *Lentinus edodes mycelium*, which is prepared by

crushing and delignifying a solid medium containing *Lentinus edodes mycelia* in the presence of water and one or more enzymes selected from cellulase, protease and glucosidase to prepare a suspension, wherein said solid medium is based on bagasse and defatted rice bran; and raising temperature of said suspension to inactivate the enzymes.